

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in this application:

Listing of Claims:

Claims 1 – 36 (Cancelled)

37. (Currently Amended)

Pump (1), suitable for use as a vacuum pump or compressor, comprising:

at least one pump piston (2, 3) moving on a circular path, and a pump housing (18), the pump piston (2, 3), optionally coupled in a rigid manner to one or more further pump pistons (2, 3), moving in an oscillating manner about an axis of rotation (5) on a path of movement correspondingly having two reversal positions; and furthermore a medium, optionally compressed or pressurized, being discharged via an outlet valve (8) and, in the course of movement from one reversal position into the other reversal position, an inlet valve (9) being opened;

after which, in the course of a pressure buildup, the medium is discharged on a pressure side of the pump piston (2, 3) then obtained and taken in on a suction side of the pump piston (2, 3) then obtained, the inlet valve and the outlet valve being formed in a common housing dividing wall, wherein the inlet valve and the outlet valve are associated with the same end region of the path of movement, wherein the pump piston (2, 3) and/or the pump housing (18) is coated with a flocking in the surface area of an associated movement gap.

38. (Previously Presented)

Pump according to claim 37, wherein the inlet valve (9) is run over in the movement from one reversal position into the other reversal position.

39. (Previously Presented)

Pump according to claim 37, wherein a pump chamber is formed radially on the inside by an inner wall formed rotationally fixed with respect to the pump piston.

40. (Previously Presented)

Pump according to claim 39, wherein a housing outer wall bounding the pump chamber radially on the outside is formed in a fixed manner.

41. (Previously Presented)

Pump according to claim 39, wherein a housing outer wall bounding the pump chamber radially on the outside is movable

42. (Previously Presented)

Pump according to claim 39, wherein a further inlet valve (9) is formed in at least one of the pump chamber floor and/or in the pump chamber ceiling and/or in the housing outer wall.

43. (Previously Presented)

Pump according to claim 39, wherein the pump chamber is bounded in the direction of movement of the pump piston (2, 3) by a fixed housing dividing wall.

44. (Previously Presented)

Pump according to claim 37, wherein the outlet valve (8) is formed as a check valve.

45. (Previously Presented)

Pump according to claim 39, wherein a further outlet valve (8) is formed in at least one of the pump chamber floor and/or the pump chamber ceiling and/or the housing outer wall.

46. (Previously Presented)

Pump according to claim 37, wherein the pump is driven by an electric motor.

47. (Previously Presented)

Pump according to claim 37, wherein the pump is driven by a stepping motor.

48. (Previously Presented)

Pump according to claim 37, wherein the pump is driven by an electromagnetic oscillating part.

49. (Previously Presented)

Pump according to claim 37, wherein a drive is performed by means of a crankshaft.

50. (Previously Presented)

Pump according to claim 37, wherein the drive acts on two or more pumps linked by means of the same crankshaft.

51. (Previously Presented)

Pump according to claim 50, wherein, in the case of two pumps (1) driven by means of the same crankshaft, they move in opposite directions.

52. (Cancelled)

53. (Cancelled)

54. (Previously Presented)

Pump according to claim 37, wherein the inlet valve (9) and/or the outlet valve (8) is formed from a punched or bent sheet-metal part, with a closure plate (27) associated with a valve opening (21, 22) and an adjoining bending-out portion (28).

55. (Previously Presented)

Pump according to claim 54, wherein the closure plate merges with a bending-out portion (28) with the same diameter.

56. (Previously Presented)

Pump according to claim 54, wherein the inlet valve (9) and/or the outlet valve (8) have closure plates (27) and bending-out portions (28) merging with each other in a coplanar manner.

57. (Previously Presented)

Pump according to claim 37, wherein an inlet valve (9) and/or an outlet valve (8) has a mounting foot (29), which is mounted in a clamping manner.

58. (Previously Presented)

Pump according to claim 57, wherein the mounting foot (29) merges with a bending-out portion (28) in a coplanar manner.

59. (Previously Presented)

Pump according to claim 54, wherein the closure plate (27) rests on a support (31), which is mounted in a clamping manner between the valve and the associated housing part.

60. (Previously Presented)

Pump according to claim 59, wherein the mounting in a clamping manner is achieved by means of a clamping part (37).

61. (Previously Presented)

Pump according to claim 59, wherein the mounting in a clamping manner is achieved by means of a pressure part (35).

62. (Previously Presented)

Pump according to claim 37, wherein a longitudinal extent of the inlet valve (9) and/or of the outlet valve (8) runs parallel to the axis of rotation (5) of the pump pistons (2, 3).

63. (Previously Presented)

Pump according to claim 37, wherein a number of outlet valves (8) are disposed next to one another parallel to the direction of rotation (5).

64. (Previously Presented)

Pump according to claim 37, wherein the pump piston (2, 3) has associated with the outlet valve (8) an opening projection (40), for the triggering of the outlet valve (8).

65. (Previously Presented)

Pump according to claim 37, wherein an opening projection, protruding toward a corresponding end face of the pump piston (2, 3), is formed as a push rod.

66. (Previously Presented)

Pump according to claim 37, wherein a pump (1) has four--or a higher multiple of two--pump pistons (2, 3), of which two or more respectively move on a common circular path.

67. (Previously Presented)

Pump according to claim 37, wherein two pump pistons (2, 3) moving on a common circular path are respectively disposed in a separate pump housing (18).

68. (Previously Presented)

Pump according to claim 37, wherein a common drive is provided for the two pump pistons (2, 3), and in that the drive is disposed in a drive housing (44) separate from the pump housing (18).

69. (Previously Presented)

Pump according to claim 68, wherein the drive housing (44) is disposed between the pump housings (18).

70. (Previously Presented)

Pump according to claim 37, wherein in the case of a number of pump housings (18), the pump housings (18) are identically formed such that they can be exchanged for each other.

71. (Cancelled)

72. (Cancelled)

73. (New)

Pump (1), suitable for use as a vacuum pump or compressor, comprising:

at least one pump piston (2, 3) moving on a circular path, and a pump housing (18), the pump piston (2, 3), optionally coupled in a rigid manner to one or more further pump pistons (2, 3), moving in an oscillating manner about an axis of rotation (5) on a path of movement correspondingly having two reversal positions; and furthermore a medium, optionally compressed or pressurized, being discharged via an outlet valve (8) and, in the course of movement from one reversal position into the other reversal position, an inlet valve (9) being opened;

after which, in the course of a pressure buildup, the medium is discharged on a pressure side of the pump piston (2, 3) then obtained and taken in on a suction side of the pump piston (2, 3) then obtained, the inlet valve and the outlet valve being formed in a common housing dividing wall, wherein the inlet valve and the outlet valve are associated with the same end region of the path of movement, wherein further, the inlet valve and the outlet valve being provided in an exchangeable valve strip such that an outer-edge disposition of the inlet valve can be switched to an outer-edge disposition of the outlet valve or vice-versa by turning the valve strip around.

74. (New)

Pump according to claim 73, wherein the valve strip is formed in mirror image with respect to a longitudinal axis with the inlet valves and the outlet valves lying opposite one another with respect to a center longitudinal axis of the valve strip.